

AUG 24 2006

Patent
43521-1900

IN THE CLAIMS:

1. (Currently Amended) A device for measuring strategy acquisition when a subject performs a predetermined assignment of work comprising:
- a measuring portion that ~~measures a blood amount or and a blood component~~
5 ~~amount~~ an oxyHb amount in blood in a predetermined measuring region of ~~brains~~ a brain of a subject;
- a time change data producing portion that obtains ~~the blood amount or and the blood component amount~~ the oxyHb amount in the blood measured by the above-mentioned measuring portion chronologically and that produces time change data as data showing time
10 ~~change of the oxyHb amount in the blood; the blood amount or and the blood component amount;~~
- an average data producing portion that calculates average values of the oxyHb amount on each work and produces average value data indicating an average value of the oxyHb amount while the subject conducts each assigned work based on the time change data produced
15 by the time change data producing portion in case the subject conducts multiple works that can be solved using a definite law or regularity; and
- an output portion that ~~displays or outputs the time change data produced by the time change data producing portion in case the subject conducts a predetermined work so that timing when the subject acquires strategy to solve the work can be detectable~~ the average value
20 data produced by the average value data producing portion.

2. (Cancelled)

Patent
43521-1900

3. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
according to claim 1 wherein the measuring portion measures ~~at least an amount of oxyHb and~~
an amount of deoxyHb in the blood.

4. (Cancelled)

5. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
according to claim 1 wherein the predetermined measuring region is an area corresponding to a
higher brain function portion of the subject.

6. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
according to claim 1 wherein the predetermined measuring region is set at a frontal lobe of the
10 subject.

7. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
according to claim 1 wherein the measuring portion measures the ~~blood amount or/and the blood~~
~~component amount~~ oxyHb amount in the blood by making use of a near-infrared spectroscopy.

8. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
15 according to claim 7 wherein the measuring portion is a type of one channel.

9. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
according to claim 1 and further comprising a fixing means to fix a head portion of the subject.

480035

Patent
43521-1900

10. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
according to claim 1 wherein

the measuring portion can calculate ~~a blood amount or/and a blood component~~
~~amount~~ the oxyHb amount in the blood that is baseline-corrected corresponding to the work

5 conducted by the subject, and

the time change data producing portion is made to obtain the baseline-corrected
~~blood amount or/and the baseline corrected blood component amount~~ oxyHb amount in the
blood chronologically and to produce the time change data.

11. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
10 according to claim 10 wherein the measuring portion calculates a measured value of the blood
~~amount or/and the baseline corrected blood component amount~~ oxyHb amount in the blood
based on a predetermined parameter data that is correlative to the ~~blood amount or/and the~~
~~baseline corrected blood component amount~~ oxyHb amount in blood.

and further comprising a parameter data correct portion that baseline-corrects the
15 above-described parameter corresponding to the work and a computing portion that calculates
the ~~blood amount or/and the baseline corrected blood component amount~~ oxyHb amount in the
blood by the use of the parameter data corrected by the parameter data correct portion.

12. (Currently Amended) The device for measuring strategy acquisition ~~described in~~
according to claim 11 wherein

20 the parameter data correct portion is to correct the parameter data with a
difference value between the parameter data obtained while the subject conducts the work and

Patent
43521-1900

baseline data expressing a baseline, and

the baseline data is expressed by a function that varies corresponding to a content of the work.

13. (Currently Amended) A method for measuring strategy acquisition, in case a
5 subject conducts ~~a predetermined work~~ multiple works that can be solved using a definite law or
regularity comprising:

~~wherein a blood amount or/and a blood component amount~~ determining an oxyHb
amount in the blood in a predetermined measuring region of ~~brains~~ a brain of the subject ~~that~~ is
measured chronologically by the use of a near-infrared spectroscopy;

10 ~~time change data as data showing time change of the blood amount or/and the~~
~~blood component amount is produced~~ calculating average values of the oxyHb amount on each
work based on the time change data as data showing the time change and determining average
value data indicating an average value of the oxyHb amount on each work;

producing an average value data showing the average value of the oxyHb amount
15 during the time period the subject conducts each work, and displaying or printing the average
value data, [[and]] wherein a state of strategy acquisition to solve the work for the subject is
determined based on the time change data.

Patent
43521-1900

14. (New) A device for measuring strategy acquisition of a work project, comprising:
- a measuring unit that measures a number of moles of oxyHb in blood per unit length at a predetermined measuring region in a person's brain where strategy acquisition of the work project occurs;
 - 5 a time change data producing unit that receives the number of moles of oxyHb per unit length measured by the measuring unit and generates time change data corresponding to time change of the number of moles of oxyHb per unit length;
 - an average data producing unit that averages the number of moles of oxyHb per unit length measured for the work project that the person conducts based on the time change data
 - 10 produced by the time change data producing unit when the person performs the work project that can be solved using a definite law or regularity, and generates average value data for the work project; and
 - an output unit that outputs the average value data produced by the average value data producing portion.

Patent
43521-1900

15. (New) A method for measuring strategy acquisition of a work project that can be solved using a definite law or regularity, the method comprising the steps of:
- measuring chronologically a number of moles of oxyHb per unit length at a predetermined measuring region in a person's brain where strategy acquisition of the work project occurs;
 - generating time change data corresponding to the time change of the number of moles of oxyHb per unit length;
 - generating average value data corresponding to the average value of the number of moles of oxyHb per unit length measured for the work project based on time change data; and
 - outputting the average value data to determine the state of strategy acquisition for solving the work project.